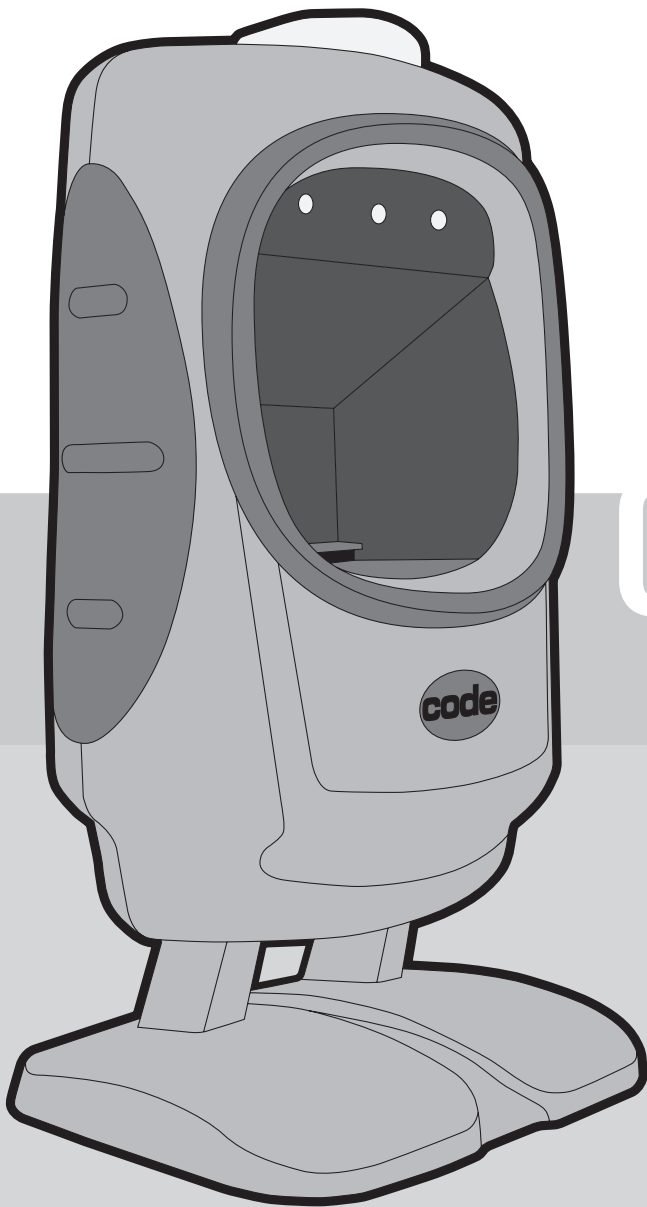


USER MANUAL

NORTH AMERICA, EMEA, APAC

Products Supported: CR900FD, CR1000, CR1400, CR5000, CR6000, CR8000 (Limited Support for CR2300, CR2600, and CR3600)



CORTEXOPOS™

MANUAL VERSION 02
RELEASE DATE: MAY 2015



www.codecorp.com



[YouTube.com/codecorporation](https://www.youtube.com/codecorporation)

code[®]
ADVANCED BARCODE READERS

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Code Corporation, 12393 S. Gateway Park Place, Ste. 600, Draper, Utah 84020 USA

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Table of Contents

1.0 - Introduction 4

2.0 - Hardware Requirements 4

3.0 - Software Requirements 4

4.0 - CortexOPOS™ USB Device Types 4

5.0 - Installation..... 5

6.0 - Configuring a Code Reader for USB Communication 6

7.0 - Configuring a Code Reader for RS232 Communication..... 6

8.0 - CortexOPOS™ Device Manager..... 6

9.0 - Adding a USB Reader to the CortexOPOS™ Device Manager 7

10.0 - Adding a RS232 Reader (or Modem) to the CortexOPOS™ Device Manager 8

11.0 - Using the Microsoft POS for .NET Sample Application..... 9

12.0 - Optional Feature Support..... 10

1.0 - Introduction

The CortexOPOS™ service object allows Code barcode readers to interface with Windows PC applications that use the OPOS standard to communicate to peripherals. By default, the driver installation will create an OPOS device that will work for all USB-connected Code barcode readers. The CortexOPOS™ installer will also install the CortexOPOS™ Device Manager. The Device Manager gives users more advanced options, which include configuration for RS232-connected devices, including modems, and multiple devices connected at the same time.

The CortexOPOS™ service object supports USB and RS232 connections between the reader and the host computer. RS232 connection between the modem and host computer is also supported. Bluetooth connections are not supported at this time.

2.0 - Hardware Requirements

Component	Requirements
Computer	PC/AT compatible.
Hard Disk	In addition to the capacity recommended for the OS, the hard disk must have at least 10 MB space available.
Memory	A minimum of 94 MB of memory is required, and an additional 256 MB is recommended.

3.0 - Software Requirements

Component	Requirements
Operating System	Windows XP (SP2), Windows 7, or Windows 8

4.0 - CortexOPOS™ USB Device Types

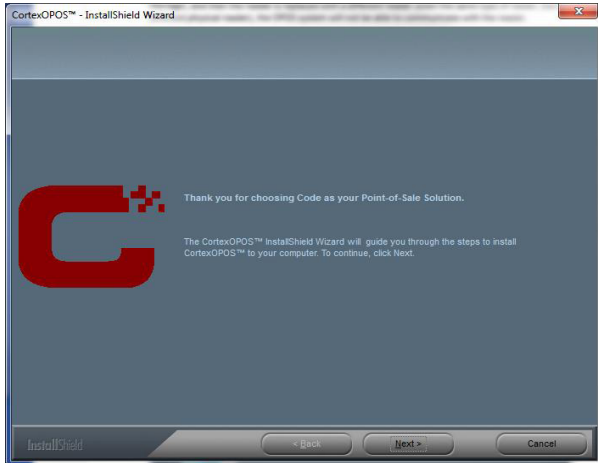
There are two different ways to setup a Code USB reader for OPOS:

Type	Description
Generic CortexOPOS™ device (default)	This is an OPOS-registered device that is not tied to any particular Code barcode reader. It will communicate with any connected Code barcode reader (CR1000, CR5000, etc.)
Hardware-specific CortexOPOS™ device	This is an OPOS-registered device that is tied to a single physical Code barcode reader serial number. CAUTION: If this type of device is configured using the CortexOPOS™ Device Manager, then if the reader is replaced with a different reader (even the same type of reader, but not the exact same physical reader), the OPOS system will not be able to communicate with the reader.

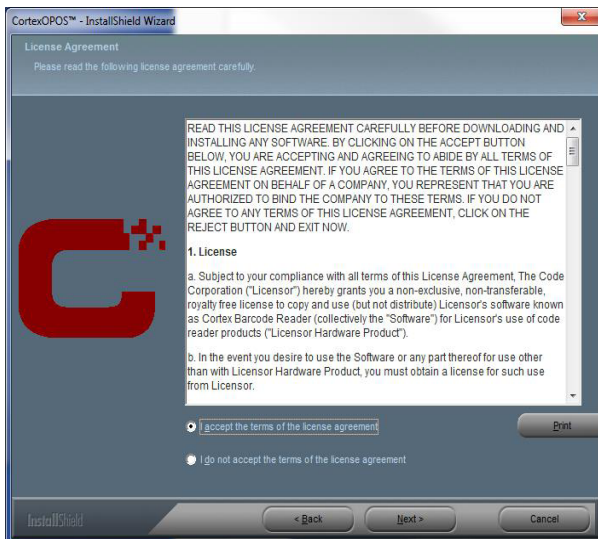
Note: The concept of generic vs hardware-specific devices is only relevant to USB-connected devices. When an RS232 CortexOPOS™ device is configured, it will communicate to any Code barcode reader that is connected to that RS232 port, as long as the reader is correctly configured.

5.0 - Installation

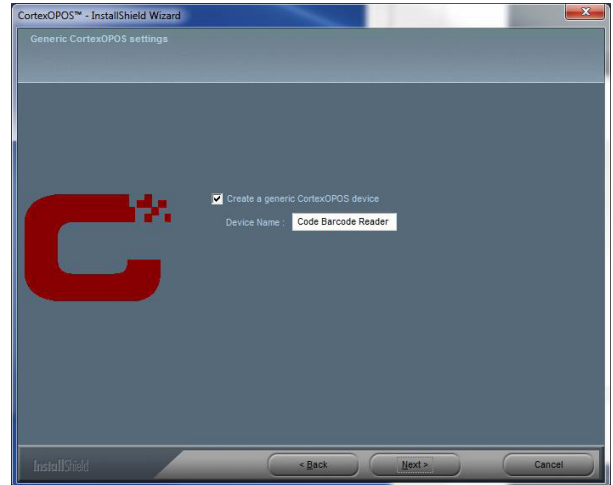
1. Download the OPOSinstaller.zip file available from www.codecorp.com/downloads.php.
2. Run the "CortexOPOSSetup" executable, and press "Next" when the screen below opens.



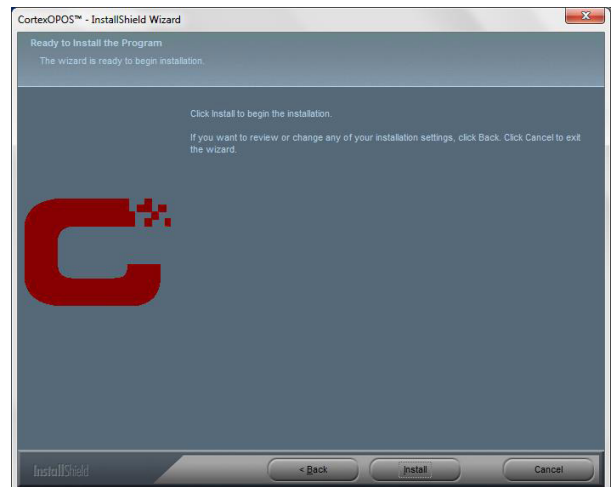
3. Accept the Terms & Conditions and select Next.



4. Keep the checkbox checked to create a generic CortexOPOS™ device. Uncheck the box to skip the device creation step (device will need to be created later in Device Manager). The "Device Name" box contains the name of the device that will be created, which can be changed to whatever name is desired. If a generic CortexOPOS™ device has been created previously, this screen will not be shown. Select the desired options and click "Next".



5. Select Install, then Finish to complete the installation process.



At this point, the CortexOPOS™ service object is installed. Prior to using a Code barcode reader with the OPOS software, it must be configured for OPOS operation (see Section 6 or 7).

If a generic device was created as part of the installation, the OPOS software application should be able to connect to a properly configured device. If a generic device was not created, then the CortexOPOS™ Device Manager application must be used to configure a Code device for use with OPOS.

6.0 - Configuring a Code Reader for USB Communication

Scan the following barcode to configure the reader for OPOS mode using USB communication. To restore the original configuration, scan the "Reset to USB Factory Defaults" barcode from the online configuration guide at <http://codecorp.com/ConfigGuide>.

USB OPOS/JPOS Mode



M10009_01

7.0 - Configuring a Code Reader for RS232 Communication

Scan the following barcode to configure the reader for OPOS mode using RS232 communication. To restore the original configuration, scan the "Reset to RS232 Factory Defaults" barcode from the online configuration guide at <http://codecorp.com/ConfigGuide>.

RS232 OPOS/JPOS Mode



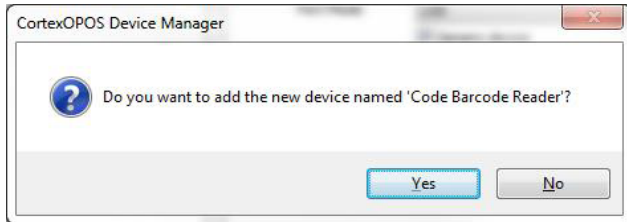
M10467_01

8.0 - CortexOPOS™ Device Manager

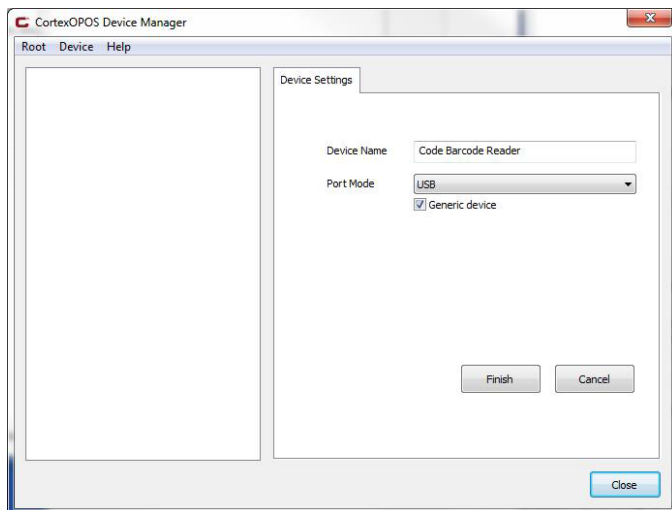
The CortexOPOS™ Device Manager provides options for more advanced configurations. If only one Code barcode reader will be connected to the host computer, and it will be connected using USB, then the default configuration is all that is necessary. The CortexOPOS™ Device Manager permits configuration of RS232 devices, multiple generic devices, or hardware-specific devices (one or more). All USB devices must either be generic or hardware-specific; types cannot be mixed.

9.0 - Adding a USB Reader to the CortexOPOS™ Device Manager

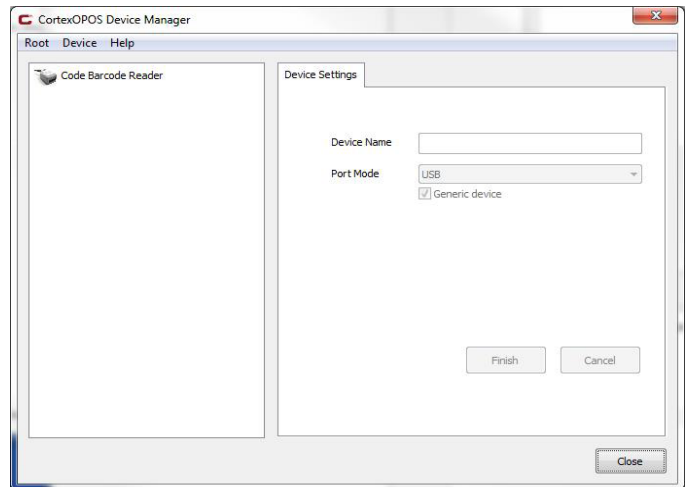
1. Open the CortexOPOS™ Device Manager.
2. Plug a reader into the computer USB port.
3. The Device Manager will detect a connected barcode reader and display the following prompts; select 'Yes' to continue.



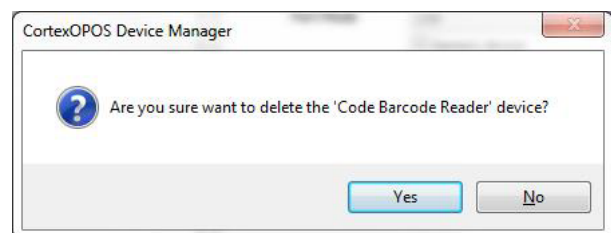
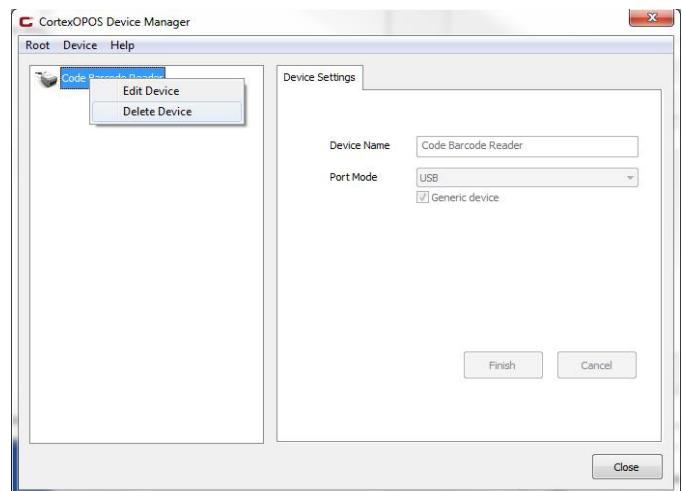
4. By default, the reader is configured as a generic device. To create a hardware-specific device, uncheck the "Generic device" checkbox. To change the name of the device, modify the text in the "Device Name" field. Press "Finish" to save changes. A prompt box will appear asking the user to confirm the changes. Press "Yes" to confirm.



5. Once the reader has been added to the CortexOPOS™ Device Manager, the reader name will appear in the device list.

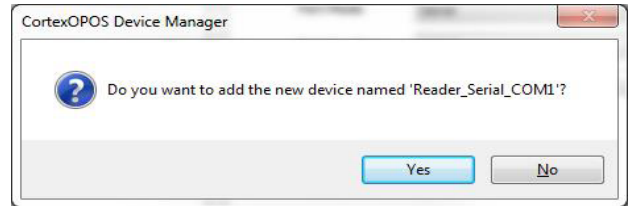
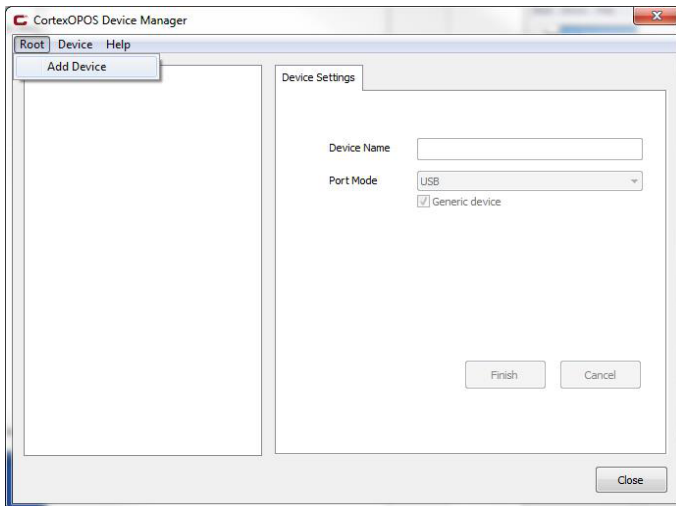


6. To delete a device, right-click on a device name and select "Delete Device". A prompt box will appear asking the user to confirm the deletion. Press "Yes" to confirm.



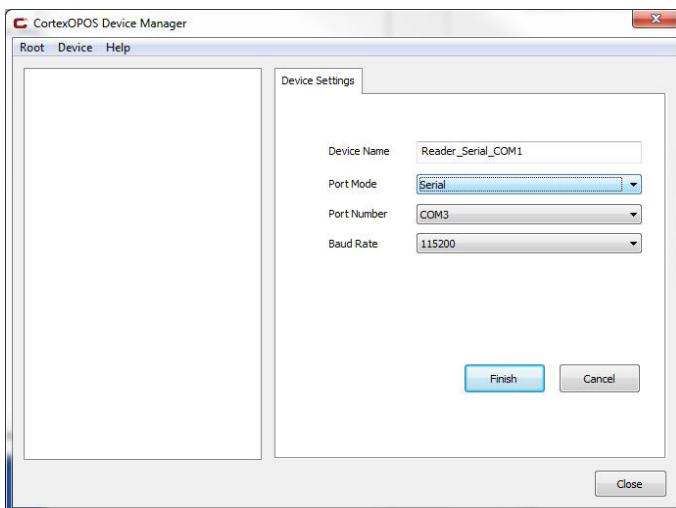
10.0 - Adding a RS232 Reader (or Modem) to the CortexOPOS™ Device Manager

1. Open the CortexOPOS™ Device Manager.
2. Plug the reader, or CodeXML® modem, into the computer serial port. (Scan the QuickConnect Code™ on the modem.)
3. Select the “Root” menu, then “Add Device”.
5. Select the desired RS232 port number and baud rate. Modify the “Device Name” as desired. Press “Finish” to save changes. A prompt box will appear asking the user to confirm the changes. Press “Yes” to confirm.



Note that all RS232 CortexOPOS™ devices behave as generic devices, and are not tied to any particular reader hardware and/or serial number.

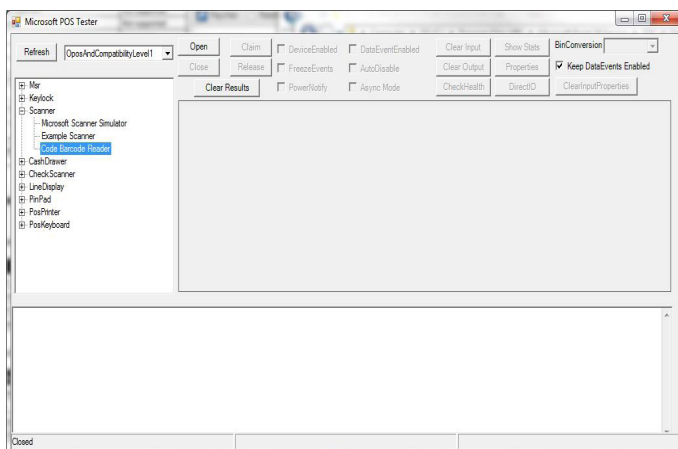
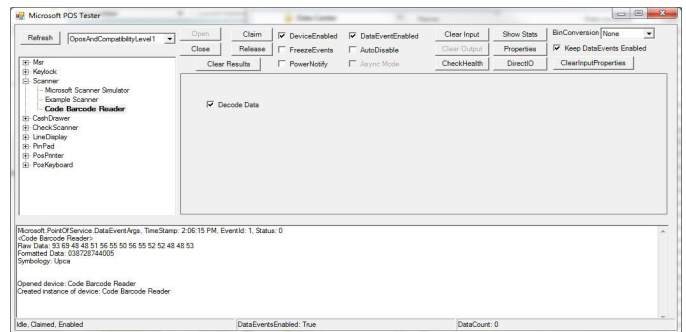
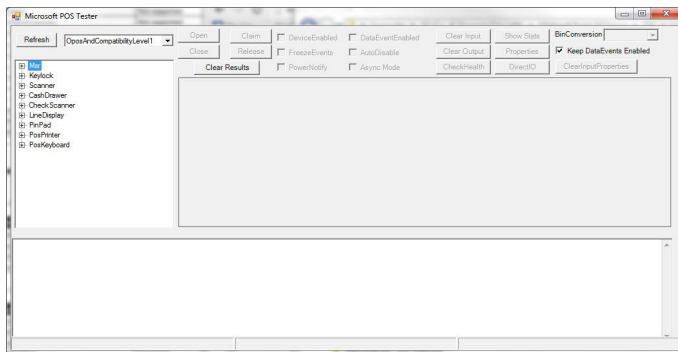
4. Select Serial from the Port Mode list options:



11.0 - Using the Microsoft POS for .NET Sample Application

Microsoft provides the “Microsoft Point of Service for .NET” or “Microsoft POS for .NET” library that includes a sample application that can be used with OPOS drivers, including the CortexOPOS™ driver for Code barcode readers, to test communication with OPOS devices. This software can be downloaded from Microsoft at <http://www.microsoft.com/en-us/download/>.

1. Install the “Microsoft POS for .NET” software.
2. Open the “TestApp.exe” sample application (close any other OPOS applications, including CortexOPOS™ Device Manager , and any other Code applications).
3. Make sure you have a properly configured Code Reader connected to the computer. Expand the Scanner block in the left pane, and select the device name specified for the connected Code Reader (“Code Barcode Reader” by default).
4. Press “Open”, then “Claim” to connect to the reader.
5. Check the “DeviceEnabled”, the “DataEventEnabled”, and the “Decode Data” checkboxes. Scan a barcode and see the results in the bottom window.



12.0 - Optional Feature Support

Feature/Capability	Support Statement
Power reporting	Supported as PR_STANDARD
Compare firmware	Not supported
Statistics reporting	Not supported
Update firmware	Not supported
Update statistics	Not supported
Direct IO	Not supported